Applicant: Tatsuo Kanetake

Title: Method and Apparatus for Composing Virtual Links in a Label Switched Network Attorney Docket No.: 16869B-036800US

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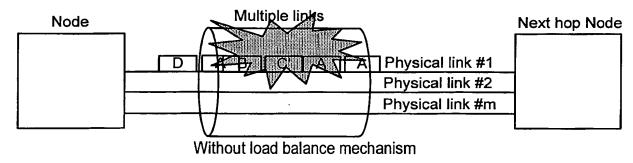


FIG. 1

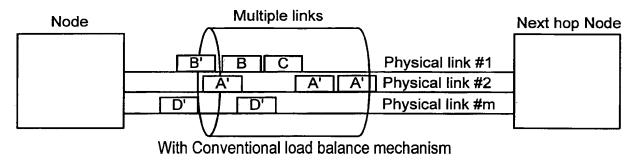


FIG. 2

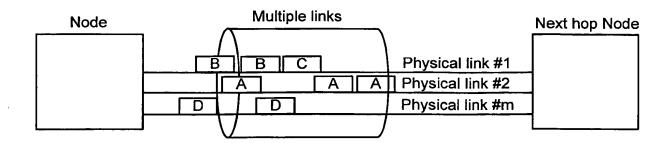
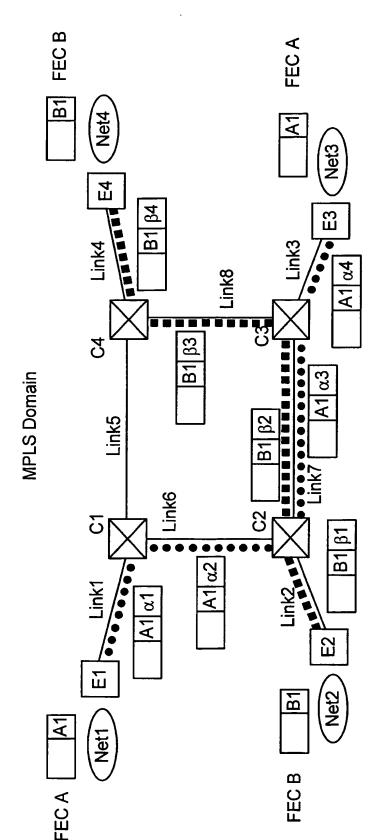


FIG. 3



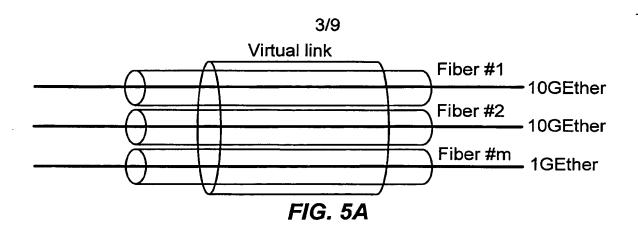


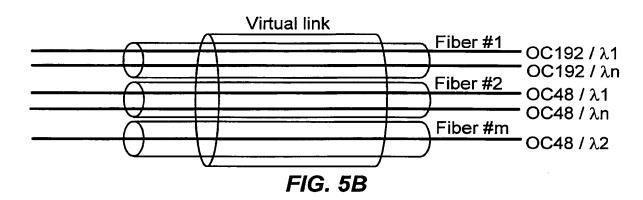


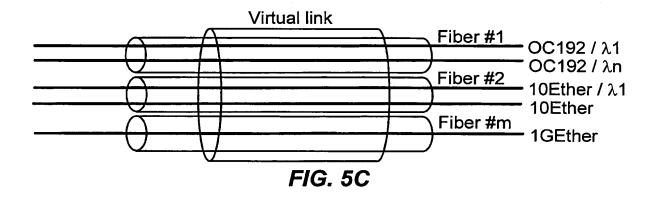
C1, C2, C3, C4: Label Switch Router (CORE), E1, E2, E3, E4: Label Switch Router (Edge), A1, B1: IP Destination Address, α 1, α 2, α 3, α 4, β 1, β 2, β 3, β 4 : Label Example of the network (MPLS) domain

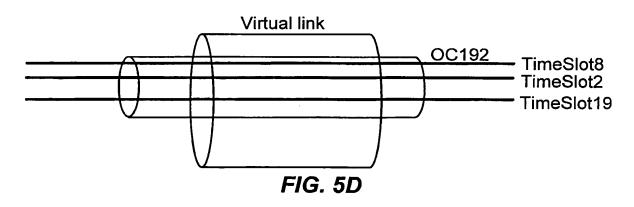
FIG. 4

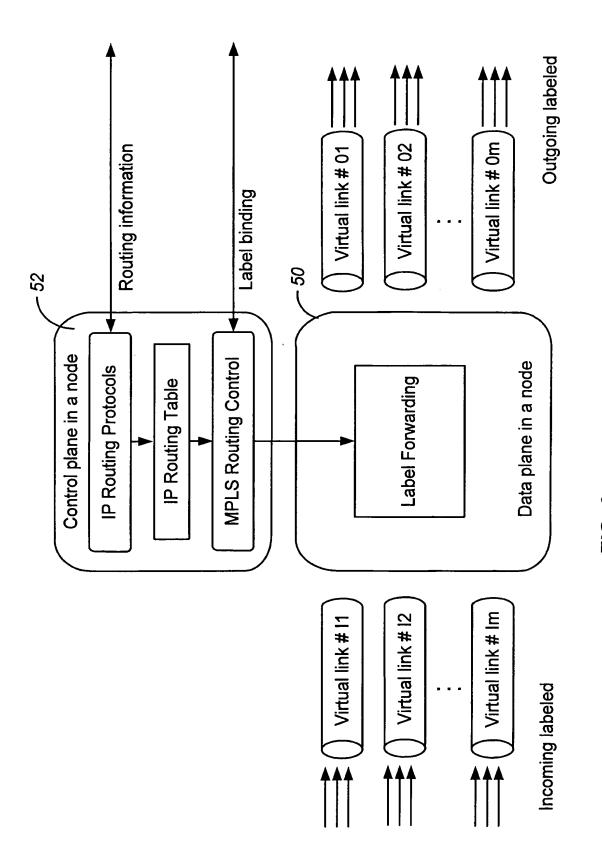
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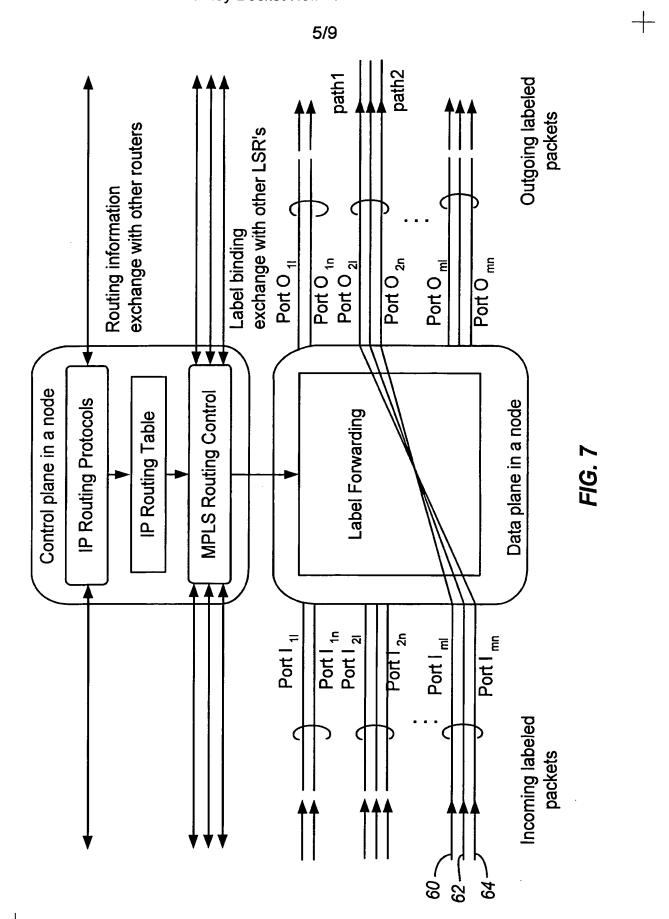


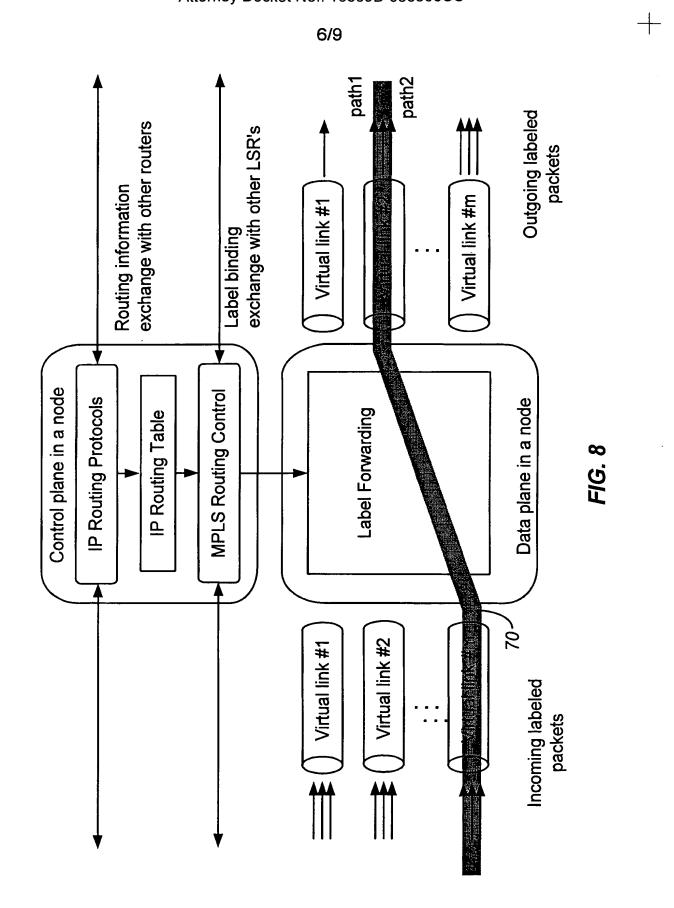






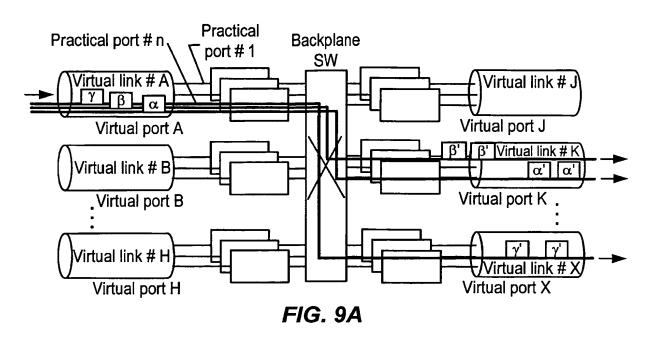
F/G. 6 LSR Architecture

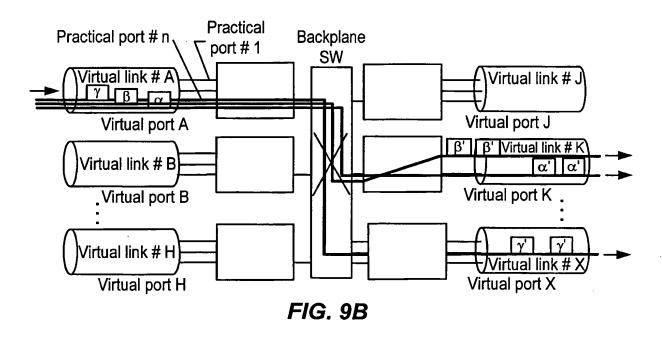




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Label Forwarding Table maintained by the MPLS control plane -92	Output practical port#	χ')	f(β')	٧')	?.		f(ζ')	ا (،ل		۲,)
	Out practica	f(α')	Į),	f(^{γ'})	f(8')	ξ(ε')	£(``	f(η')	f(σ'	f(ĸ')
	Output virtual port#	X	У	×	Ω	æ	I	ח	¥	×
	Output Label	α'	β'	h	·8	- ພ	<i>∵</i>	- L	_ნ	- 'Y
	Input Label	α	β	λ	8	ω	\$	'n	ь	¥
Label Forward	Input virtual port#	٧	А	A	∢	4	4	4	4	∢
	Input practical port#	c	C	C	2	τ-	2	~	5	C

Label Forwarding Table and mechanism to decide practical output port at the sending LSR

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ane		Output practical port#	f(α")	f(β")	f(y")	f(8")	f(e")	f(ζ")	f(η")	f(o")	f(k")
-Label Forwarding Table maintained by the MPLS control plane	96	Output virtual port#	¥	×	×	æ	В	I	7	¥	×
intained by the l	94	Output Label	"α	β.,	γ,,	8	- ω	ŗ\$	" L	" b	*
rding Table mai	92	Input Label	α'	β,	λ,	.8	ယ	7	u	ь	¥
Label Forwal	06	Input virtual port#	А	A	A	∢	∢	∢	∢	∢	⋖
	100	Input practical port#	u	u	ב	7	~	2	~ ·	5	C
(96	Hash value of incoming label	f(α')	f(β')	f(y')	f(8')	f(s')	f(\(\zeta_{\circ} \)	f(η')	f(a')	f(k')
		Tag	0	0	0		0	0	0		

First lookup mechanism using a hash

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